

#6

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/533310
Source: PCT
Date Processed by STIC: 5/12/5

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PCT

RAW SEQUENCE LISTING

DATE: 05/12/2005

PATENT APPLICATION: US/10/533,310

TIME: 08:16:09

Input Set : A:\Q87626 Sequence Listing.txt

Output Set: N:\CRF4\05122005\J533310.raw

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3 <110> APPLICANT: Meiji Seika, Ltd.
4     OKAKURA, Kaoru
5     YANAI, Koji
7 <120> TITLE OF INVENTION: NOVEL CELLULASE RESISTANT TO SURFACTANT
9 <130> FILE REFERENCE: Q87626
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/533,310
C--> 11 <141> CURRENT FILING DATE: 2005-04-29
11 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/014013
12 <151> PRIOR FILING DATE: 2003-10-31
14 <150> PRIOR APPLICATION NUMBER: JP 2002-318303
15 <151> PRIOR FILING DATE: 2002-10-31
17 <160> NUMBER OF SEQ ID NOS: 8
19 <170> SOFTWARE: PatentIn version 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 205
23 <212> TYPE: PRT
24 <213> ORGANISM: Humicola insolens
27 <220> FEATURE:
28 <221> NAME/KEY: mat_peptide
29 <222> LOCATION: (1)..(205)
31 <400> SEQUENCE: 1
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34 1                    5                    10                    15
37 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
38                20                25                30
41 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
42            35            40            45
45 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
46        50        55        60
49 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
50 65                70                75                80
53 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
54            85            90            95
57 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
58        100        105        110
61 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
62            115            120            125
65 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
66        130        135        140
69 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
70 145                150                155                160
73 Asp Ala Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
74            165            170            175

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77 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
78          180          185          190
81 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
82          195          200          205
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86 <211> LENGTH: 615
87 <212> TYPE: DNA
88 <213> ORGANISM: Humicola insolens
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93 cccggcaagg gcccggcgcc cgtgcggacg tgcgaccggt gggacaaccc gctgttcgac      120
95 ggcggcaaca cgcgcagcgg gtgcgacgcg ggcggcgggc cctacatgtg ctcggaccag      180
97 agcccgtggg cggtcagcga cgacctggcg tacggctggg cggccgtcaa cattgccggc      240
99 tccaacgaga ggcagtgggt ctgcgcctgc tacgagctga ccttcaccag cgggccgggt      300
101 gcgggcaaga ggatgattgt gcaggcgagc aacacgggag gcgatttggg gaacaaccac      360
103 tttgatattg ctatgcccgg cggtggcgctc ggtatcttca acgcctgcac cgaccagtac      420
105 ggcgcgcccc ccaacggctg gggccagcgc tacggcggca tcagccaacg ccacgagtgc      480
107 gacgccttcc ccgagaagct caagcccggc tgctactggc gctttgactg gttcctcaac      540
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111 agcggctgct cgcgt                                     615
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 205
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: A detergent-resistant cellulase
122 <400> SEQUENCE: 3
124 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro
125 1          5          10          15
128 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
129          20          25          30
132 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
133          35          40          45
136 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
137          50          55          60
140 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
141 65          70          75          80
144 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
145          85          90          95
148 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
149          100          105          110
152 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
153          115          120          125
156 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
157          130          135          140
160 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
161 145          150          155          160
164 Asp Pro Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
165          165          170          175

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168 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
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172 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
173           195           200           205
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177 <211> LENGTH: 205
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: A detergent-resistant cellulase
184 <400> SEQUENCE: 4
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187 1           5           10           15
190 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
191           20           25           30
194 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
195           35           40           45
198 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
199           50           55           60
202 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
203 65           70           75           80
206 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
207           85           90           95
210 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
211           100          105          110
214 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
215           115          120          125
218 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
219           130          135          140
222 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
223 145          150          155          160
226 Asp Ala Phe Pro Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
227           165          170          175
230 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
231           180          185          190
234 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
235           195           200           205
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 205
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: A detergent-resistant cellulase
246 <400> SEQUENCE: 5
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249 1           5           10           15
252 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
253           20           25           30
256 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys

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257          35          40          45
260 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
261          50          55          60
264 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
265 65          70          75          80
268 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
269          85          90          95
272 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
273          100          105          110
276 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
277          115          120          125
280 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
281          130          135          140
284 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
285 145          150          155          160
288 Asp Pro Phe Pro Glu Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
289          165          170          175
292 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
293          180          185          190
296 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
297          195          200          205

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300 <210> SEQ ID NO: 6

301 <211> LENGTH: 27

302 <212> TYPE: DNA

303 <213> ORGANISM: Artificial Sequence

305 <220> FEATURE:

306 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

308 <400> SEQUENCE: 6

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312 <210> SEQ ID NO: 7

313 <211> LENGTH: 27

314 <212> TYPE: DNA

315 <213> ORGANISM: Artificial Sequence

317 <220> FEATURE:

318 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

320 <400> SEQUENCE: 7

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27

324 <210> SEQ ID NO: 8

325 <211> LENGTH: 30

326 <212> TYPE: DNA

327 <213> ORGANISM: Artificial Sequence

329 <220> FEATURE:

330 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

332 <400> SEQUENCE: 8

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VERIFICATION SUMMARY

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TIME: 08:16:10

Input Set : A:\Q87626 Sequence Listing.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date